

04/02/01

Please type a plus sign (+) inside this box → ☐PTO/SB/05 (4/98)
Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office U S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.**UTILITY
PATENT APPLICATION
TRANSMITTAL**

Only for new nonprovisional applications under 37 C.F.R. § 1.53(b)

Attorney Docket No. 500.39945PX1

First Inventor or Application Identifier Yoshiko KOKURYO

Title See 1 in Addendum

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 47]
(preferred arrangement set forth below)
- Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 17]
4. Oath or Declaration [Total Pages]
- a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

* NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT
IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO:Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
 - b. ☐ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of
(when there is an assignee) ☐ Attorney
9. ☐ English Translation Document (if applicable)
10. ☐ Information Disclosure ☐ Copies of IDS
Statement (IDS)/PTO-1449 ☐ Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
13. ☐ * Small Entity ☐ Statement filed in prior application
Statement(s) ☐ Status still proper and desired
(PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
15. ☒ Other: See 2 in Addendum

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No. _____ / _____
Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS☒ Customer Number or Bar Code Label

020457

or ☐ Correspondence address below

(Insert Customer No. or Attach bar code label here)

Name				
Address				
City	State	Zip Code		
Country	Telephone	Fax		

Name (Print/Type) Alan E. Schiavelli

Registration No. (Attorney/Agent)

32,087

Signature

Date

04-02-01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2000</h2> <p style="font-size: small; margin: 0;">Patent fees are subject to annual revision Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.</p>		<p>Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Application Number</td><td></td></tr> <tr><td>Filing Date</td><td>April 2, 2001</td></tr> <tr><td>First Named Inventor</td><td>Yoshiro KOKURYO</td></tr> <tr><td>Examiner Name</td><td></td></tr> <tr><td>Group / Art Unit</td><td></td></tr> <tr><td>Attorney Docket No.</td><td>500.39945PX1</td></tr> </table>		Application Number		Filing Date	April 2, 2001	First Named Inventor	Yoshiro KOKURYO	Examiner Name		Group / Art Unit		Attorney Docket No.	500.39945PX1
Application Number															
Filing Date	April 2, 2001														
First Named Inventor	Yoshiro KOKURYO														
Examiner Name															
Group / Art Unit															
Attorney Docket No.	500.39945PX1														
TOTAL AMOUNT OF PAYMENT		(\$) 710.00													

<p>METHOD OF PAYMENT (check one)</p> <p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to.</p> <p>Deposit Account Number: 01-2135</p> <p>Deposit Account Name: Antonelli, Terry, Stout & Kraus, LLP</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p style="margin-left: 20px;"> <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input checked="" type="checkbox"/> Other </p> <p style="text-align: center;">FEE CALCULATION</p> <p>1. BASIC FILING FEE</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>101</td><td>690</td><td>201</td><td>345</td><td>Utility filing fee</td><td rowspan="5" style="text-align: center; vertical-align: middle;">710.00</td></tr> <tr><td>106</td><td>310</td><td>206</td><td>155</td><td>Design filing fee</td></tr> <tr><td>107</td><td>480</td><td>207</td><td>240</td><td>Plant filing fee</td></tr> <tr><td>108</td><td>690</td><td>208</td><td>345</td><td>Reissue filing fee</td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (1)</td> <td style="text-align: center;">(\$)710.00</td> </tr> <p>2. EXTRA CLAIM FEES</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Total Claims</th> <th colspan="2">Extra Claims</th> <th colspan="2">Fee from below</th> <th colspan="2">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>-20** = 0</td> <td>18</td> <td>X 18 = 0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>-3** = 0</td> <td>2</td> <td>X 80 = 0</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4">Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><small>**or number previously paid, if greater; For Reissues, see below</small></p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>78</td><td>202</td><td>39</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>260</td><td>204</td><td>130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109</td><td>78</td><td>209</td><td>39</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (2)</td> <td style="text-align: center;">(\$)0.00</td> </tr> </tbody></table> </tbody></table>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	101	690	201	345	Utility filing fee	710.00	106	310	206	155	Design filing fee	107	480	207	240	Plant filing fee	108	690	208	345	Reissue filing fee	114	150	214	75	Provisional filing fee	SUBTOTAL (1)					(\$) 710.00	Total Claims		Extra Claims		Fee from below		Fee Paid		18	-20** = 0	18	X 18 = 0					2	-3** = 0	2	X 80 = 0					Multiple Dependent								Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	103	18	203	9	Claims in excess of 20		102	78	202	39	Independent claims in excess of 3		104	260	204	130	Multiple dependent claim, if not paid		109	78	209	39	** Reissue independent claims over original patent		110	18	210	9	** Reissue claims in excess of 20 and over original patent		SUBTOTAL (2)					(\$) 0.00	<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td style="text-align: center;">0.00</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td style="text-align: center;">0.00</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td style="text-align: center;">0.00</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td style="text-align: center;">0.00</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td style="text-align: center;">0.00</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td style="text-align: center;">0.00</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td style="text-align: center;">0.00</td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td style="text-align: center;">0.00</td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td style="text-align: center;">0.00</td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td style="text-align: center;">0.00</td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td style="text-align: center;">0.00</td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td style="text-align: center;">0.00</td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td style="text-align: center;">0.00</td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td style="text-align: center;">0.00</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td style="text-align: center;">0.00</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td style="text-align: center;">0.00</td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td style="text-align: center;">0.00</td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td style="text-align: center;">0.00</td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td style="text-align: center;">0.00</td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td style="text-align: center;">0.00</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td style="text-align: center;">0.00</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td style="text-align: center;">0.00</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td style="text-align: center;">0.00</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td style="text-align: center;">0.00</td></tr> <tr><td>146</td><td>690</td><td>246</td><td>345</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td style="text-align: center;">0.00</td></tr> <tr><td>149</td><td>690</td><td>249</td><td>345</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td style="text-align: center;">0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td style="text-align: center;">0.00</td></tr> <tr><td colspan="5">Other fee (specify) _____</td><td style="text-align: center;">0.00</td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (3)</td> <td style="text-align: center;">(\$)0.00</td> </tr> </tbody> </table> <p><small>*Reduced by Basic Filing Fee Paid</small></p>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late filing fee or oath	0.00	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	0.00	139	130	139	130	Non-English specification	0.00	147	2,520	147	2,520	For filing a request for reexamination	0.00	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	0.00	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	0.00	115	110	215	55	Extension for reply within first month	0.00	116	380	216	190	Extension for reply within second month	0.00	117	870	217	435	Extension for reply within third month	0.00	118	1,360	218	680	Extension for reply within fourth month	0.00	128	1,850	228	925	Extension for reply within fifth month	0.00	119	300	219	150	Notice of Appeal	0.00	120	300	220	150	Filing a brief in support of an appeal	0.00	121	260	221	130	Request for oral hearing	0.00	138	1,510	138	1,510	Petition to institute a public use proceeding	0.00	140	110	240	55	Petition to revive - unavoidable	0.00	141	1,210	241	605	Petition to revive - unintentional	0.00	142	1,210	242	605	Utility issue fee (or reissue)	0.00	143	430	243	215	Design issue fee	0.00	144	580	244	290	Plant issue fee	0.00	122	130	122	130	Petitions to the Commissioner	0.00	123	50	123	50	Petitions related to provisional applications	0.00	126	240	126	240	Submission of Information Disclosure Stmt	0.00	581	40	581	40	Recording each patent assignment per property (times number of properties)	0.00	146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))	0.00	149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	0.00	Other fee (specify) _____					0.00	Other fee (specify) _____					0.00	SUBTOTAL (3)					(\$) 0.00
Large Entity		Small Entity		Fee Description			Fee Paid																																																																																																																																																																																																																																																																																																										
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																														
101	690	201	345	Utility filing fee	710.00																																																																																																																																																																																																																																																																																																												
106	310	206	155	Design filing fee																																																																																																																																																																																																																																																																																																													
107	480	207	240	Plant filing fee																																																																																																																																																																																																																																																																																																													
108	690	208	345	Reissue filing fee																																																																																																																																																																																																																																																																																																													
114	150	214	75	Provisional filing fee																																																																																																																																																																																																																																																																																																													
SUBTOTAL (1)					(\$) 710.00																																																																																																																																																																																																																																																																																																												
Total Claims		Extra Claims		Fee from below		Fee Paid																																																																																																																																																																																																																																																																																																											
18	-20** = 0	18	X 18 = 0																																																																																																																																																																																																																																																																																																														
2	-3** = 0	2	X 80 = 0																																																																																																																																																																																																																																																																																																														
Multiple Dependent																																																																																																																																																																																																																																																																																																																	
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																												
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																														
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																																																																																																																													
102	78	202	39	Independent claims in excess of 3																																																																																																																																																																																																																																																																																																													
104	260	204	130	Multiple dependent claim, if not paid																																																																																																																																																																																																																																																																																																													
109	78	209	39	** Reissue independent claims over original patent																																																																																																																																																																																																																																																																																																													
110	18	210	9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																																																																																																																													
SUBTOTAL (2)					(\$) 0.00																																																																																																																																																																																																																																																																																																												
Large Entity		Small Entity		Fee Description	Fee Paid																																																																																																																																																																																																																																																																																																												
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																																																																																																																																														
105	130	205	65	Surcharge - late filing fee or oath	0.00																																																																																																																																																																																																																																																																																																												
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	0.00																																																																																																																																																																																																																																																																																																												
139	130	139	130	Non-English specification	0.00																																																																																																																																																																																																																																																																																																												
147	2,520	147	2,520	For filing a request for reexamination	0.00																																																																																																																																																																																																																																																																																																												
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	0.00																																																																																																																																																																																																																																																																																																												
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	0.00																																																																																																																																																																																																																																																																																																												
115	110	215	55	Extension for reply within first month	0.00																																																																																																																																																																																																																																																																																																												
116	380	216	190	Extension for reply within second month	0.00																																																																																																																																																																																																																																																																																																												
117	870	217	435	Extension for reply within third month	0.00																																																																																																																																																																																																																																																																																																												
118	1,360	218	680	Extension for reply within fourth month	0.00																																																																																																																																																																																																																																																																																																												
128	1,850	228	925	Extension for reply within fifth month	0.00																																																																																																																																																																																																																																																																																																												
119	300	219	150	Notice of Appeal	0.00																																																																																																																																																																																																																																																																																																												
120	300	220	150	Filing a brief in support of an appeal	0.00																																																																																																																																																																																																																																																																																																												
121	260	221	130	Request for oral hearing	0.00																																																																																																																																																																																																																																																																																																												
138	1,510	138	1,510	Petition to institute a public use proceeding	0.00																																																																																																																																																																																																																																																																																																												
140	110	240	55	Petition to revive - unavoidable	0.00																																																																																																																																																																																																																																																																																																												
141	1,210	241	605	Petition to revive - unintentional	0.00																																																																																																																																																																																																																																																																																																												
142	1,210	242	605	Utility issue fee (or reissue)	0.00																																																																																																																																																																																																																																																																																																												
143	430	243	215	Design issue fee	0.00																																																																																																																																																																																																																																																																																																												
144	580	244	290	Plant issue fee	0.00																																																																																																																																																																																																																																																																																																												
122	130	122	130	Petitions to the Commissioner	0.00																																																																																																																																																																																																																																																																																																												
123	50	123	50	Petitions related to provisional applications	0.00																																																																																																																																																																																																																																																																																																												
126	240	126	240	Submission of Information Disclosure Stmt	0.00																																																																																																																																																																																																																																																																																																												
581	40	581	40	Recording each patent assignment per property (times number of properties)	0.00																																																																																																																																																																																																																																																																																																												
146	690	246	345	Filing a submission after final rejection (37 CFR § 1.129(a))	0.00																																																																																																																																																																																																																																																																																																												
149	690	249	345	For each additional invention to be examined (37 CFR § 1.129(b))	0.00																																																																																																																																																																																																																																																																																																												
Other fee (specify) _____					0.00																																																																																																																																																																																																																																																																																																												
Other fee (specify) _____					0.00																																																																																																																																																																																																																																																																																																												
SUBTOTAL (3)					(\$) 0.00																																																																																																																																																																																																																																																																																																												

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Alan E. Schiavelli	Registration No (Attorney/Agent)	32,087
Signature		Telephone	703-312-6600
		Date	04-02-01

WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Attachment to PTO/SB/05 (4/98) Utility Patent Application
Transmittal

1. AUTOMATIC EQUALIZATION CIRCUIT AND RECEIVER CIRCUIT USING THE SAME
2.
 - Figs. 1-21
 - Credit Card Payment Form
 - Info. Discl. Sheet Under 37 CFR 1.56 w/refs.